1	CLAIMS
2	What is claimed is:
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1	1. A method of identifying an internet telephony provisioning entity to an internet
2	telephony device, the method comprising:
3	storing a pre-provisioning contact and a unique device ID number in a non-
4	volatile memory of the internet telephony device.
5	receiving a provisioning contact of a provisioning entity assigned to the device at
6	a pre-provisioning server and storing the provisioning contact in association with a
7	unique device ID number assigned to the device;
8	receiving an inquiry initiated from the device to the pre-provisioning server at the
9	pre-provisioning contact, the inquiry comprising the unique ID number assigned to the
10	device;
11	responding to the inquiry with a response that includes the provisioning contact
12	that was stored in associate with the unique device ID number of the device.
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1	2. The method of claim 1, wherein the steps of receiving an inquirer and the step of
2	responding to the inquiry are performed over a hyper text transport protocol link initiated
3	by the device to the pre-provisioning server.
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1	3. The method of claim 2, wherein:
2	wherein the step of storing the provisioning contact in conjunction with the unique
3	device ID number comprises:
4	writing the unique device ID number to a key field of a record in a look-up
5	table; and
6	writing the provisioning contact to a binary object field of the record in the
7	look-up table.
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1	4. The method of claim 3 wherein:
2	the provisioning contact is a provisioning contact selected from a group of

provisioning contacts consisting of a domain name of a provisioning entry point server and a combination of an IP address and port number of a provisioning entry point server; and

the entry point server is a server that provides the device with provisioning information selected from a group of provisioning information consisting of a telephony configuration parameters associated with the device ID number and identification of provisioning servers associated with the device ID number which in turn provide telephony configuration parameters.

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5. The method of claim 4, wherein:

the step of receiving a provisioning contact of a provisioning entity comprises receiving:

the unique device ID number of the device; and the provisioning contact of the provisioning entity encapsulated in an IP frame from the provisioning entity.

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6. The method of claim 4, wherein:

provisioning entity to the device.

the step of receiving a provisioning contact of a provisioning entity comprises receiving:

the unique device ID number of the device; and the provisioning contact of the provisioning entity encapsulated in an IP frame from a point of sale system that assigned the

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7. A pre-provisioning server for identifying an internet telephony provisioning entity to an internet telephony device that has both a unique device ID number and a preprovisioning contact stored in its non-volatile memory; the pre-provisioning server comprising:

a management application for receiving a provisioning contact of a provisioning entity assigned to the device and storing the provisioning contact in association with a

7	unique device ID number assigned to the device;
8	a device application for:
9	receiving an inquiry initiated from the device to the pre-provisioning server
10	at the pre-provisioning contact, the inquiry comprising the unique ID number assigned to
11	the device; and
12	responding to the inquiry with a response that includes the provisioning
13	contact that was stored in association with the unique device ID number of the device.
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1	8. The pre-provisioning server of claim 7, further comprising a web server
2	application for receiving the inquiry and responding to the inquiry over a hyper text
3	transport protocol link initiated by the device to the pre-provisioning server.
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1	9. The pre-provisioning server of claim 8:
2	further comprising a look-up table comprising a key field and a binary object field;
3	and
4	wherein the management application stores the provisioning contact in
5	conjunction with the unique device ID number by:
6	writing the unique device ID number to the key field of a record in the look-
7	up table; and
8	writing the provisioning contact to the binary object field of the record in
9	the look-up table.
10	
1	10. The pre-provisioning server of claim 9, wherein:
2	the provisioning contact is a provisioning contact selected from a group of
3	provisioning contacts consisting of a domain name of a provisioning entry point server
4	and a combination of an IP address and port number of a provisioning entry point
5	server; and
6	the entry point server is a server that provides the device with provisioning
7	information selected from a group of provisioning information consisting of a telephony
8	configuration parameters associated with the device ID number and identification of

9	provisioning servers associated with the device ID number which in turn provide		
10	telephony configuration parameters.		
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1	11. The pre-provisioning server of claim 10, wherein:		
2	the management application receives a provisioning contact of a provisioning		
3	entity by receiving:		
4	the unique device ID number of the device; and		
5	the provisioning contact of the provisioning entity		
6	encapsulated in an IP frame from the provisioning entity.		
7			
1	12. The method of claim 10, wherein:		
2	the management application receives a provisioning contact of a provisioning		
3	entity by receiving:		
4	the unique device ID number of the device; and		
5	the provisioning contact of the provisioning entity		
6	encapsulated in an IP frame from a point of sale system that assigned the		
7	provisioning entity to the device.		
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1	13. An internet telephony device comprising:		
2	a non-volatile memory for storing:		
3	a unique device ID number assigned to the device; and		
4	a pre-provisioning contact;		
5	an IP module for communicating with other IP devices over a frame switched		
6	network using a network configuration and comprising a network configuration module		
7	for obtaining the network configuration from a DHCP server;		
8	an internet telephony provisioning module for:		
9	sending an inquiry to the pre-provisioning server at the pre-provisioning		
10	contact stored in the non-volatile memory, the inquiry comprising the unique ID number		
11	stored in the non-volatile memory;		
12	receiving a response to the inquiry that includes a provisioning contact;		

13	sending a provisioning inquiry to a provisioning entity associated with the		
14	provisioning contact; and		
15	obtaining provisioning information in response to the provisioning inquiry,		
16	the provisioning information selected from a group of provisioning information consisting		
17	of a telephony configuration parameters associated with the device ID number and		
18	identification of provisioning servers associated with the device ID number which in turn		
19	provide telephony configuration parameters.		
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1	14. The internet telephony device of claim 13, wherein:		
2	the internet telephony provisioning module:		
3	sends the inquiry to the pre-provisioning server at the pre-provisioning		
4	contact by initiating a hyper text transport protocol link to the pre-provisioning server;		
5	and		
6	receives the response to the inquiry on the hyper text transport protocol		
7	link.		
8			
1	15. The internet telephony device of claim 14, wherein the provisioning contact is a		
2	provisioning contact selected from a group of provisioning contacts consisting of a		
3	domain name of a provisioning entry point server and a combination of an IP address		
4	and port number of a provisioning entry point server.		
5	40. The letter state have a decise of claim 45 wherein the interestablished		
1	16. The internet telephony device of claim 15, wherein the internet telephony		
2	provisioning module:		
3	stores the provisioning contact in the non volatile memory in response to receiving the response that includes a provisioning contact; and		
4 5	sends the inquiry to the pre-provisioning server at the pre-provisioning contact if		
6	the provisioning contact in response to determining that the provisioning contact is not		
7	available in the non volatile memory.		
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1	17. The internet telephony device of claim 15, wherein the internet telephony		

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2	provisioning module:	
3	determines whether telephony provisioning resources are included in a DHCP	
4	response provided by the DHCP server; and	
5	sends a provisioning inquiry to a provisioning entity associated with the	
6	provisioning contact in response to determining that the DHCP response does not	
7	include telephony provisioning resources.	
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1	18. The internet telephony device of claim 17, wherein the internet telephony	
2	provisioning module:	
3	stores the provisioning contact in the non volatile memory in response to	
4	receiving the response that includes a provisioning contact; and	
5	sends the inquiry to the pre-provisioning server at the pre-provisioning contact in	n
6	response to determining that the provisioning contact is not available in the non volatile	9
7	memory.	
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1	19. A method of discovering internet telephony provisioning information, the method	ţ
2	comprising:	
3	storing a unique device ID number assigned to a device and a pre-provisioning	
4	contact in a non volatile memory;	
5	obtaining a network configuration from a DHCP server; and	
6	using the network configuration to:	
7	send an inquiry to a pre-provisioning server at the pre-provisioning	
8	contact, the inquiry comprising the unique ID number;	
9	receiving a response to the inquiry that includes a provisioning contact;	
10	sending a provisioning inquiry to a provisioning entity associated with the	ŧ
11	provisioning contact; and	
12	obtaining provisioning information in response to the provisioning inquiry,	,
13	the provisioning information selected from a group of provisioning information consisting	ıg
14	of a telephony configuration parameters associated with the device ID number and	
15	identification of provisioning servers associated with the device ID number which in tur	n

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16 17	prov	de telephony configuration parameters.	
1	20.	The method of claim 19, wherein:	
2		the step of sending the inquiry to the pre-provisioning server at the pre-	
3	provi	isioning contact comprises initiating a hyper text transport protocol link to the pre-	
4	provisioning server and sending the inquiry on the hyper text transport protocol link; and		
5	•	the step of receiving the response to the inquiry comprising receiving the	
6	response on the hyper text transport protocol link.		
7		7	
1	21.	The method of claim 20, wherein the provisioning contact is a provisioning	
2	conta	act selected from a group of provisioning contacts consisting of a domain name of a	
3	provi	sioning entry point server and a combination of an IP address and port number of a	
4	provi	sioning entry point server.	
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1	22.	The method of claim 21:	
2		further comprising storing the provisioning contact in the non volatile memory in	
3	resp	onse to receiving the response that includes a provisioning contact; and	
4		the step of sending the inquiry to the pre-provisioning server at the pre-	
5	provi	sioning contact is performed in response to determining that the provisioning	
6	conta	act is not available in the non volatile memory.	
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1	23.	The method of claim 21:	
2		further comprising determining whether telephony provisioning resources are	
3	inclu	ded in a DHCP response provided by the DHCP server; and	
4		the step of sending a provisioning inquiry to a provisioning entity associated with	
5	the provisioning contact is performed in response to determining that the DHCP		
6	resp	onse does not include telephony provisioning resources.	
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1	24.	The method of claim 23,	
2		further comprising storing the provisioning contact in the non volatile memory in	

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3	response to receiving the response that includes a provisioning contact; and
4	the step of sending the inquiry to the pre-provisioning server at the pre-
5	provisioning contact is performed in response to determining that the provisioning
6	contact is not available in the non volatile memory.
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